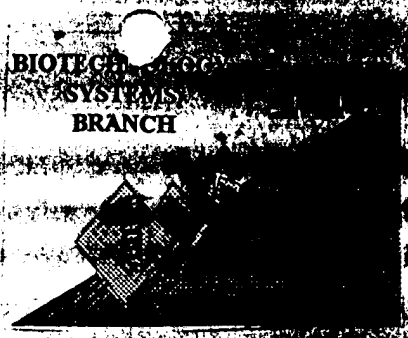
Compliant

BIOTECHNOLOGY SYSTEMS BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/374,338

Source: 1627

Date Processed by STIC: 11/13/2000

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT [illegible] 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-[illegible] (M-F 8:30-5:30)
PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-[illegible] (M-F 8:30-5:30)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE [illegible] AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

http://www.uspto.gov/web/offices/pac/checker

J. Ricigliano

1627

see pp 1-5

Does Not Comply
Corrected Diskette Need

RAW SEQUENCE LISTING DATE: 11/13/2000
PATENT APPLICATION: US/09/374,338 TIME: 17:24:43

Input Set : A:\PTO.txt
Output Set: N:\CRF3\11132000\I374338.raw

<110> APPLICANT: Heller, Michael J.
Windhab, Norbert
Anderson, Richard R.
Ackley, Donald E.
Nova, Tina S.
Hoppe, Hans-Ullrich
Hamon, Christian
<120> TITLE OF INVENTION: MICROELECTRONIC MOLECULAR DESCRIPTOR ARRAY DEVICES, METHODS, PROCEDURES, AND FORMATS FOR COMBINATORIAL SELECTION OF INTERMOLECULAR LIGAND BINDING STRUCTURES AND FOR DRUG SCREENING
<130> FILE REFERENCE: Patrick Eagleman: Nanogen 241/172
<140> CURRENT APPLICATION NUMBER: 09/374,338
<141> CURRENT FILING DATE: 1999-08-13
<160> NUMBER OF SEQ ID NOS: 31
<170> SOFTWARE: PatentIn version 3.0
<210> SEQ ID NO: 1
<211> LENGTH: 7
<212> TYPE: DNA
<213> ORGANISM: SYNTHETIC CONSTRUCT
<220> FEATURE:
<221> NAME/KEY: modified_base
<222> LOCATION: (1)..(7)
<223> OTHER INFORMATION: Entire sequence is Pyranosyl RNA
<220> FEATURE:
<221> NAME/KEY: modified_base
<222> LOCATION: (1)..(1)
<223> OTHER INFORMATION: Base 1 is tryptamine
<220> FEATURE:
<221> NAME/KEY: modified_base
<222> LOCATION: (7)..(7)
<223> OTHER INFORMATION: Base 7 is modified with Texas Red
<400> SEQUENCE: 1
ngaaggg 7
<210> SEQ ID NO: 2
<211> LENGTH: 14
<212> TYPE: DNA
<213> ORGANISM: SYNTHETIC CONSTRUCT
<220> FEATURE:
<221> NAME/KEY: modified_base
<222> LOCATION: (1)..(14)
<223> OTHER INFORMATION: Entire sequence is Pyranosyl RNA
<220> FEATURE:
<221> NAME/KEY: modified_base
<222> LOCATION: (1)..(1)
<223> OTHER INFORMATION: Base 1 is modified with Biotin
<220> FEATURE:
<221> NAME/KEY: modified_base

tryptamine is not a nucleotide base - "n" can only represent a nucleotide base

RAW SEQUENCE LISTING DATE: 11/13/2000
PATENT APPLICATION: US/09/374,338 TIME: 17:24:43

Input Set : A:\PTO.txt
Output Set: N:\CRF3\11132000\I374338.raw

70 <222> LOCATION: (8)..(8)
71 <223> OTHER INFORMATION: Base 8 is tryptamine
74 <400> SEQUENCE: 2
W--> 75 cccttctncc cccg 14
78 <210> SEQ ID NO: 3
79 <211> LENGTH: 7
80 <212> TYPE: DNA
81 <213> ORGANISM: SYNTHETIC CONSTRUCT
83 <220> FEATURE:
84 <221> NAME/KEY: modified_base
85 <222> LOCATION: (1)..(7)
86 <223> OTHER INFORMATION: Entire sequence is Pyranosyl RNA
89 <220> FEATURE:
90 <221> NAME/KEY: modified_base
91 <222> LOCATION: (1)..(1)
92 <223> OTHER INFORMATION: Base 1 is modified with Cyanine-3 flourescent dye
95 <220> FEATURE:
96 <221> NAME/KEY: modified_base
97 <222> LOCATION: (7)..(7)
98 <223> OTHER INFORMATION: Base 7 is tryptamine
101 <400> SEQUENCE: 3
W--> 102 cggggnn 7
105 <210> SEQ ID NO: 4
106 <211> LENGTH: 7
107 <212> TYPE: DNA
108 <213> ORGANISM: SYNTHETIC CONSTRUCT
110 <220> FEATURE:
111 <221> NAME/KEY: modified_base
112 <222> LOCATION: (1)..(7)
113 <223> OTHER INFORMATION: Entire sequence is Pyranosyl RNA
116 <220> FEATURE:
117 <221> NAME/KEY: modified_base
118 <222> LOCATION: (3)..(3)
119 <223> OTHER INFORMATION: Base 3 is tryptamine
122 <220> FEATURE:
123 <221> NAME/KEY: modified_base
124 <222> LOCATION: (4)..(4)
125 <223> OTHER INFORMATION: Base 4 is tryptamine
128 <220> FEATURE:
129 <221> NAME/KEY: modified_base
130 <222> LOCATION: (5)..(5)
131 <223> OTHER INFORMATION: Base 5 is tryptamine
134 <400> SEQUENCE: 4
W--> 135 ccnnngg 7
138 <210> SEQ ID NO: 5
139 <211> LENGTH: 7
140 <212> TYPE: DNA
141 <213> ORGANISM: SYNTHETIC CONSTRUCT
143 <220> FEATURE:

RAW SEQUENCE LISTING DATE: 11/13/2000
PATENT APPLICATION: US/09/374,338 TIME: 17:24:43

Input Set : A:\PTO.txt
Output Set: N:\CRF3\11132000\I374338.raw


```
    144 <221> NAME/KEY: modified_base
    145 <222> LOCATION: (1)..(7)
    146 <223> OTHER INFORMATION: Entire sequence is Pyranosyl RNA
    149 <220> FEATURE:
    150 <221> NAME/KEY: modified_base
    151 <222> LOCATION: (1)..(1)
    152 <223> OTHER INFORMATION: Base 1 modified with Fluorophore
    155 <220> FEATURE:
    156 <221> NAME/KEY: modified_base
    157 <222> LOCATION: (7)..(7)
    158 <223> OTHER INFORMATION: Base 7 modified with a Peptide
    161 <220> FEATURE:
    162 <221> NAME/KEY: modified_base
    163 <222> LOCATION: (7)..(7)
    164 <223> OTHER INFORMATION: Base 7 is tryptamine
    167 <400> SEQUENCE: 5
W--> 168 cgggggn                                                    7
    171 <210> SEQ ID NO: 6
    172 <211> LENGTH: 8
    173 <212> TYPE: DNA
    174 <213> ORGANISM: SYNTHETIC CONSTRUCT
    176 <220> FEATURE:
    177 <221> NAME/KEY: modified_base
    178 <222> LOCATION: (1)..(8)
    179 <223> OTHER INFORMATION: Entire sequence is Pyranosyl RNA
    182 <220> FEATURE:
    183 <221> NAME/KEY: modified_base
    184 <222> LOCATION: (1)..(1)
    185 <223> OTHER INFORMATION: Base 1 modified with a Peptide
    188 <220> FEATURE:
    189 <221> NAME/KEY: modified_base
    190 <222> LOCATION: (1)..(1)
    191 <223> OTHER INFORMATION: Base 1 is tryptamine
    194 <220> FEATURE:
    195 <221> NAME/KEY: modified_base
    196 <222> LOCATION: (8)..(8)
    197 <223> OTHER INFORMATION: Base 8 is any nucleotide
    200 <400> SEQUENCE: 6
W--> 201 ngaagggn                                                   8
    204 <210> SEQ ID NO: 7
    205 <211> LENGTH: 14
    206 <212> TYPE: DNA
    207 <213> ORGANISM: SYNTHETIC CONSTRUCT
    209 <220> FEATURE:
    210 <221> NAME/KEY: modified_base
    211 <222> LOCATION: (1)..(14)
    212 <223> OTHER INFORMATION: Entire sequence is Pyranosyl RNA
    215 <220> FEATURE:
    216 <221> NAME/KEY: modified_base
```

OK

Please edit any subsequent sequences containing this error.

RAW SEQUENCE LISTING DATE: 11/13/2000
PATENT APPLICATION: US/09/374,338 TIME: 17:24:43

Input Set : A:\PTO.txt
Output Set: N:\CRF3\11132000\I374338.raw

location 7 is a base location
next location is base 8

```
217 <222> LOCATION: (1)..(1)
218 <223> OTHER INFORMATION: Base 1 modified with Biotin
221 <220> FEATURE:
222 <221> NAME/KEY: modified_base
223 <222> LOCATION: (7)..(7)
224 <223> OTHER INFORMATION: Base 7 is tryptamine
227 <220> FEATURE:
228 <221> NAME/KEY: modified_base
229 <222> LOCATION: (7)..(8)
230 <223> OTHER INFORMATION: Base between 7 and 8 is modified with a Peptide
233 <400> SEQUENCE: 7
W--> 234 ccctt(0)ccc cccg                                              14
237 <210> SEQ ID NO: 8
238 <211> LENGTH: 6
239 <212> TYPE: PRT
240 <213> ORGANISM: SYNTHETIC CONSTRUCT
242 <220> FEATURE:
243 <221> NAME/KEY: PEPTIDE
244 <222> LOCATION: (1)..(1)
245 <223> OTHER INFORMATION: 1st amino acid is modified with pyranosyl RNA
248 <400> SEQUENCE: 8
250 Cys Leu Ser Leu Glu Gly
251 1               5
253 <210> SEQ ID NO: 9
254 <211> LENGTH: 6
255 <212> TYPE: PRT
256 <213> ORGANISM: SYNTHETIC CONSTRUCT
258 <220> FEATURE:
259 <221> NAME/KEY: PEPTIDE
260 <222> LOCATION: (1)..(1)
261 <223> OTHER INFORMATION: 1st amino acid is modified with pyranosyl RNA
264 <400> SEQUENCE: 9
266 Cys Ser Leu Glu Ser Gly
267 1               5
269 <210> SEQ ID NO: 10
270 <211> LENGTH: 6
271 <212> TYPE: PRT
272 <213> ORGANISM: SYNTHETIC CONSTRUCT
274 <220> FEATURE:
275 <221> NAME/KEY: PEPTIDE
276 <222> LOCATION: (1)..(1)
277 <223> OTHER INFORMATION: 1st amino acid is modified with pyranosyl RNA
280 <400> SEQUENCE: 10
282 Cys Leu Leu Ser Glu Gly
283 1               5
285 <210> SEQ ID NO: 11
286 <211> LENGTH: 6
287 <212> TYPE: PRT
288 <213> ORGANISM: SYNTHETIC CONSTRUCT
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RAW SEQUENCE LISTING DATE: 11/13/2000
PATENT APPLICATION: US/09/374,338 TIME: 17:24:43

Input Set : A:\PTO.txt
Output Set: N:\CRF3\11132000\I374338.raw

```
290 <220> FEATURE:
291 <221> NAME/KEY: PEPTIDE
292 <222> LOCATION: (1)..(1)
293 <223> OTHER INFORMATION: 1st amino acid is modified with pyranosyl RNA
296 <400> SEQUENCE: 11
298 Cys Ser Arg Ser Arg Gly
299 1               5
301 <210> SEQ ID NO: 12
302 <211> LENGTH: 6
303 <212> TYPE: PRT
304 <213> ORGANISM: SYNTHETIC CONSTRUCT
306 <220> FEATURE:
307 <221> NAME/KEY: PEPTIDE
308 <222> LOCATION: (1)..(1)
309 <223> OTHER INFORMATION: 1st amino acid is modified with pyranosyl RNA
312 <400> SEQUENCE: 12
314 Cys Ser Arg His Arg Gly
315 1               5
317 <210> SEQ ID NO: 13
318 <211> LENGTH: 6
319 <212> TYPE: PRT
320 <213> ORGANISM: SYNTHETIC CONSTRUCT
322 <220> FEATURE:
323 <221> NAME/KEY: PEPTIDE
324 <222> LOCATION: (1)..(1)
325 <223> OTHER INFORMATION: 1st amino acid is pyranosyl RNA
328 <400> SEQUENCE: 13
330 Cys His Arg Tyr Arg Gly
331 1               5
333 <210> SEQ ID NO: 14
334 <211> LENGTH: 6
335 <212> TYPE: DNA
336 <213> ORGANISM: SYNTHETIC CONSTRUCT
338 <220> FEATURE:
339 <221> NAME/KEY: modified_base
340 <222> LOCATION: (1)..(6)
341 <223> OTHER INFORMATION: Entire sequence is pyranosyl RNA
344 <400> SEQUENCE: 14
345 cccggg                                                          6
348 <210> SEQ ID NO: 15
349 <211> LENGTH: 7
350 <212> TYPE: DNA
351 <213> ORGANISM: SYNTHETIC CONSTRUCT
353 <220> FEATURE:
354 <221> NAME/KEY: modified_base
355 <222> LOCATION: (1)..(7)
356 <223> OTHER INFORMATION: Entire sequence is pyranosyl RNA
359 <220> FEATURE:
360 <221> NAME/KEY: modified_base
```

FYI

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY DATE: 11/13/2000
PATENT APPLICATION: US/09/374,338 TIME: 17:24:44

Input Set : A:\PTO.txt
Output Set: N:\CRF3\11132000\I374338.raw

L:48 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:538 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:633 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:660 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:708 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:735 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31